Scientific contributions

Publications (peer reviewed)

- ”Confined diffusion in ordered nanoporous alumina membranes”, J. Hohlbein, M. Steinhart, C. Schiene-Fischer, A. Benda, M. Hof and C. G. Hübner, Small, 3, 380, 2007
- ”A simple scheme for rapid three-dimensional orientation determination of the emission dipole of single molecules”, J. Hohlbein and C. G. Hübner, Appl. Phys. Lett., 86, 121104, 2005
- ”Recurrence and photon statistics in fluorescence fluctuation spectroscopy”, G. Zumofen, J. Hohlbein, and C. G. Hübner, Phys. Rev. Lett., 93, 260601, 2004
- ”In-situ optical characterisation of porous alumina”, J. Hohlbein, U. Rehn, and R. B. Wehrspohn, Phys. Stat. Sol.(a), 204, 803, 2004

Talks

- ”Up or down? One dimensional diffusion of single molecules in alumina nanopores”, ”5th Prague Workshop on Photoinduced Molecular Processes”, Prague, 2006
- ”Single molecule detection in ordered porous Alumina Membranes”, Picoquant ”11th Workshop on Single Molecule Spectroscopy and Ultrasensitive Analysis in the Life Sciences”, Berlin, 2005

Poster

- ”FRET of individual proteins confined in elongated nanopores”, J. Hohlbein, H. Hofmann, M. Steinhart, E. Hinze, C. Schiene-Fischer, C. G. Hübner, and U. Gösele, Picoquant , ”13th Workshop on Single Molecule Spectroscopy and Ultrasensitive Analysis in the Life Sciences”, Berlin, 2007
- ”Confined diffusion of the enhanced Green Fluorescent Protein in ordered nanoporous alumina membranes”, J. Hohlbein, M. Steinhart, E. Hinze, C. Schiene-Fischer, C. G. Hübner, and U. Gösele, 234th ACS national meeting, Boston 2007
- ”Monte-Carlo simulations of dye-labeled proteins diffusing in nanopores”, J. Hohlbein, M. Steinhart, E. Hinze, C. Schiene-Fischer, C. G. Hübner, and U. Gösele, 234th ACS national meeting, Boston 2007

- ”Confined diffusion in ordered nanopores alumina membranes”, J. Hohlbein, M. Steinhart, C. Schiene-Fischer, A. Benda, M. Hof and C. G. Hübner, Picoquant ”12th Workshop on Single Molecule Spectroscopy and Ultrasensitive Analysis in the Life Sciences”, Berlin, 2006
- ”A simple scheme for rapid 3D-orientation determination of the emission dipole of single molecules”, J. Hohlbein and C. G. Hübner, DPG-Frühjahrstagung, Berlin 2005
- ”Single molecule fluorescence detection on eGFP in ordered porous alumina”, J. Hohlbein, M. Steinhart, C. Schiene-Fischer, U. Gösele, and C. G. Hübner, 334. WE-Heraeus-Seminar ”Biofunctional Interfaces: Basic Science and Applications”, Tutzing, 2004
- ”Towards single molecule detection in artificial nanopores”, J. Hohlbein, U. Rehn, M. Steinhart, R. B. Wehrspohn, and C. G. Hübner, DPG-Frühjahrstagung Regensburg 2004

Scholarship

- DAAD (German Academic Science Exchange) scholarship, September 2005 until February 2006, J. Heyrovsky Institute of Physical Chemistry, Biophysics Group of M. Hof, Prague